

WHAT IS CLAIMED IS:

1. An apparatus for performing a handover between at least two mobile communication systems in a mobile communication network, the two mobile communication systems adapting mutually independent communication methods, and the network including a mobile communication terminal using the mobile communication systems, said apparatus comprising:

a first mobile communication system for transmitting a first handover notification message to the mobile communication terminal, and generating a second handover notification message upon receiving a handover preparation message from the mobile communication terminal;

a second mobile communication system for transmitting a page message to the mobile communication terminal upon receiving the second handover notification message from the first mobile communication system, transmitting a channel assignment message upon receiving a prescribed page response message, and forming a call path; and

the mobile communication terminal having first and second communication modules respectively communicating with the first and second mobile communication systems, wherein

the first communication module generates a drive command for the second communication module upon receiving the first handover notification message from the first mobile communication system, and transmits the handover preparation message to the first mobile communication system upon receiving a prescribed drive-response signal, and

the second communication module transmits the drive-response signal to the first communication module upon receiving the drive command from the first communication module, transmits the page response message upon receiving the page message from the second mobile communication system, and enters a call connection state upon receiving the channel assignment message from the second mobile communication system.

2. The apparatus as set forth in claim 1, wherein the second mobile communication system informs the first mobile communication system of a call connection state with the mobile communication terminal after transmitting the channel assignment message, and then the first mobile communication system terminates a call connection state with the mobile communication

terminal by transmitting a release message to the first communication module of the mobile communication terminal.

3. The apparatus as set forth in claim 1, wherein the first mobile communication system is disconnected from the first communication module of the mobile communication terminal before
5 a call connection state between the second mobile communication system and the second communication module of the mobile communication terminal is established.

4. The apparatus as set forth in claim 1, wherein the first mobile communication system is disconnected from the first communication module of the mobile communication terminal after a
10 call connection state between the second mobile communication system and the second communication module of the mobile communication terminal is established.

5. The apparatus as set forth in claim 1, wherein the first mobile communication system is disconnected from the first communication module of the mobile communication terminal at the same time that a call connection state between the second mobile communication system and the second communication module of the mobile communication terminal is established.

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15 6. A method for performing a handover between first and second mobile communication networks in a multimode multiband (MMMB) mobile communication terminal including a first module connected to the first mobile communication network to control a call and a second module connected to the second mobile communication network to control a call, said method comprising the steps of:

20 a) if the first module receives a first handover notification message from the first mobile communication network;

c) enabling the first module to transmit a handover preparation message to the first mobile communication network;

25 d) enabling the first mobile communication network to transmit a second handover notification message to the second mobile communication network;

e) if the second mobile communication network transmits a page message to the second module, enabling the second module, upon receiving the page message, to transmit a page response message to the second mobile communication network;

f) enabling the second mobile communication network to transmit a channel assignment
5 message to the second module; and

g) performing a handover operation.

7. The method as set forth in claim 6, wherein step (g) first interrupts a call path between the first mobile communication network and the first module, and then forms a call path between the second mobile communication network and the second module.

10 8. The method as set forth in claim 6, wherein step (g) simultaneously interrupts a call path between the first mobile communication network and the first module and forms a call path between the second mobile communication network and the second module.

9. The method as set forth in claim 6, wherein step (g) first forms a call path between the first mobile communication network and the first module, and then interrupts a call path between
15 the second mobile communication network and the second module.

10. The method as set forth in claim 6, wherein the first mobile communication network is an asynchronous mobile communication network (or system), the first module is an asynchronous mobile communication module, the second mobile communication network is a synchronous mobile communication network (or system), and the second module is a synchronous mobile
20 communication module.

11. The method as set forth in claim 6, wherein the first mobile communication network is a synchronous mobile communication network (or system), the first module is a synchronous mobile communication module, the second mobile communication network is an asynchronous mobile communication network (or system), and the second module is an asynchronous mobile

communication module.

12. The method as set forth in claim 10, wherein the asynchronous mobile communication system is a GSM, WCDMA, or PDC (Personal Digital Cellular) mobile communication system, and the synchronous mobile communication system is a CDMA or IS-95A/B mobile communication system.

13. The method as set forth in claim 11, wherein the asynchronous mobile communication system is a GSM, WCDMA, or PDC (Personal Digital Cellular) mobile communication system, and the synchronous mobile communication system is a CDMA or IS-95A/B mobile communication system.

14. The method as set forth in claim 6, further comprising the step of transmitting a drive command to the second module if the second module is not driven.

15. The method as set forth in claim 14, further comprising the step of informing the first module of a driven state of the second module.